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NOTES

HD 108 Remark in HD, "The spectrum appears to be nearly continuous. The dark lines are faint and show very slight contrast compared with the other portions. Bright spaces or lines are suspected. The class may be Oe5." Our plates show that this spectrum is of special interest. The hydrogen lines are bright with a dark portion on the more refrangible side, and numerous other bright lines are seen. The spectrum somewhat resembles that of P *Cygni*. A more complete description will be published in the *Contributions* from the Mount Wilson Observatory.

HD 698 Hβ is peculiar, a bright portion apparently occupying an unsymmetrical position within a wider dark line.

HD 7636 Remark in HD: "Hβ is not distinctly seen."

9 Camelopardalis This star is a spectroscopic binary having sharp H and K lines, whose displacements have been discussed by O. J. Lee[1].

HD 37115 This is the brighter star of the double, Burnham 2850.

ε *Piscis Australis* The slit spectrograms taken on 1919 Aug. 8 and 1920 Sept. 28 show that Hβ is essentially an absorption line, altho it may contain very weak bright portions.

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SUMMARY OF MOUNT WILSON MAGNETIC OBSERVATIONS OF SUN-SPOTS FOR SEPTEMBER AND OCTOBER, 1920

Since the sun-spot maximum in 1917 the decline in spot activity has been more rapid than the average. August and September were especially quiet, the four successive spotless days in September being the longest calm period since the summer of 1915. The marked increase in spot activity during October and the last week in September will bring the number of sun-spots up to nearly the normal value for this phase of the spot cycle.

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[1] *Astrophysical Journal*, **37**, 1, 1913.

MAGNETIC CLASSIFICATION OF SUN-SPOTS FOR SEPTEMBER, 1920.

No.	C. M. P.	Lat.	H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1737	Sept. 2.4	−14	30	βp	β	β	β	β	β	β	x	x						
1738	1.7	−13	11	βf	αf													
1739	1.9	+14	7				βp	βp	αp	x								
1740	Aug. 31.9	−11	3					β										
1741	Sept. 12.6	−13	23								x	β	βγ	βγ	βγ	βγ	γ	γ
1742	10.2	+ 9	24												βf	βf	β	β
				2	2	1	2	3	2	2	2	2	1	1	2	2	2	2

No.	C. M. P.	Lat.	H	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1742	Sept. 10.2	+ 9	24	x														
1743	26.9	−10	19						x	αp	αp		αp	αp	αp	αp	αp	αp
1744	28.1	−12	26							x	βp		βp	βp	βp	βp	αp	αp
1745	27.9	+21	x							x								
1746	23.9	+15	16										β	βp	βp	βp	βp	x
1747	29.4	−14	25										αp	αp	αp	βp	βp	βp
1748	28.7	−15	10										βf	βf	β	βp	αp	
1749	29.5	+14	29												β	βp	βp	βp
1750	Oct. 6.6	+ 8	23															x
				1	0	0	0	0	1	3	2	—	5	5	6	6	6	6

NOTES.

No. 1741 A stream of spots in which the polarities were distributed as in two regular bipolar groups, with the following members of the first group close to the preceding members of the second. The extreme eastern spots of the group disappeared, leaving a complex group.

No. 1744 The large preceding spot of this group divided, forming two regular spots with negative polarities.

No. 1745 Two very small spots near the east limb, no polarity observations.

No. 1747 A return of No. 1737.

No. 1750 A return of No. 1742.

MAGNETIC CLASSIFICATION OF SUN-SPOTS FOR OCTOBER, 1920.

No.	C. M. P.	Lat.	H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1743	Sept. 26.9	−10	19	x															
1744	28.1	−12	26	αp	αp	αp	x												
1747	29.4	−14	25	βp	βp	βp	βp	x											
1749	29.5	+14	29	βp	βp	αp	αp	x											
1750	Oct. 6.6	+ 8	23	αp	αp	βp	βp	x	αp	αp	αp		αp						
1751	Sept. 27.7	−11	10	β	βp														
1752	Oct. 3.1	− 5	11		βf	β	βp	x											
1753	9.5	+ 9	24				β	x	β	β	β		βp	βp	βp	βp	αp	αp	
1754	Sept. 29.6	−10	5				αp												
1755	Oct. 12.5	−16	23						x	βp	βp		βp	βp	βp	αp	αp	βp	x
1756	9.3	+13	12								βp		βp	β	βp				
1757	11.9	+ 9	23										βp	βp	βp	βp	αp	αp	x
1758	16.1	− 7	21														β	βf	β
1759	20.9	+11	12															αp	αp
				6	6	5	7	5	3	3	4	—	5	4	4	3	4	5	4

No.	C. M. P.	Lat.	H	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1758	Oct. 16.1	− 7	21			x	βp	βp											
1759	20.9	+11	12			x	x	x	β										
1760	16.7	− 8	12			x	x	βp	x										
1761	24.0	+19	23			x	β	βf	βf	βp	βγ	βγ	βp	αp		αp	x		
1762	26.5	−14	16					αp	βf	β	β	βf	βf	αf		αf			
1763	24.7	−15	13						βp	βp	βp	βp	βp	βf					
1764	26.4	+17	5										β	αp					
1765	25.5	−16	19										βf	βf		βp	βp		
1766	Nov. 4.4	+11	15													x	x		
1767	5.4	−11	30														x		
				—	—	4	4	5	5	3	3	3	5	5	—	4	4	—	

NOTES.

No. 1759 A return of No. 1746.

No. 1761 An extended group, 15 degrees long on some days. The distribution of polarities among the small spots was not always regular.

No. 1762 A return of No. 1747. This was a rather scattered group. No. 1765 developed just ahead of it, after which the preceding spots of No. 1762 disappeared.